


|  |  |   |  |   |  |
|--|--|---|--|---|--|
| FORM PTO-1390<br>(REV. 10-2003)  |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |  | ATTORNEY'S DOCKET NUMBER<br>TSUZ 2 00019              |  |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |  |   |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)       |  |
|  |  |   |  | 10/517298   |  |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/013162   |  | INTERNATIONAL FILING DATE<br>15 October 2003 (15.10.2003) |  | PRIORITY DATE CLAIMED<br>23 October 2002 (23.10.2002) |  |
| TITLE OF INVENTION COMPOSITION IN GEL FORM COMPRISING CARBON NANOTUBE AND IONIC LIQUID AND METHOD FOR PRODUCTION THEREOF   |  |   |  |   |  |
| APPLICANT(S) FOR DO/EO/US<br>FUKUSHIMA, Takanori; OCAWA, Atsuko; AIDA, Takuzo  |  |   |  |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |   |  |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input checked="" type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p> |  |   |  |   |  |

| <b>10/517298</b><br>U.S. APPLICATION NO. (37 CFR 1.53) <b>10/517298</b><br>INTERNATIONAL APPLICATION NO. <b>PCT/JP2003/013162</b>   |              | ATTORNEY'S DOCKET NUMBER<br><b>TSUZ 2 00019</b>   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
|---|--------------|---|--------------|------------------|------|----|--------------|----------|---|-----------|----|--------------------|---------|---|-----------|----|---|--|--|------------|----|--------------------------------------|--|--|--|------------------|-----------|--|
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO. .... <b>\$1080.00</b><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$920.00</b><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$770.00</b><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$730.00</b><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>                |              | <b>CALCULATIONS PTO USE ONLY</b>  |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months<br>from the earliest claimed priority date (37 CFR 1.492(e)).  |              | <b>\$ 950.00</b>  |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CLAIMS</th> <th style="text-align: center;">NUMBER FILED</th> <th style="text-align: center;">NUMBER EXTRA</th> <th style="text-align: center;">RATE</th> <th style="text-align: center;">\$</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td style="text-align: center;">5 - 20 =</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x \$18.00</td> <td style="text-align: center;">\$</td> </tr> <tr> <td>Independent claims</td> <td style="text-align: center;">1 - 3 =</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x \$86.00</td> <td style="text-align: center;">\$</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td style="text-align: center;">+ \$290.00</td> <td style="text-align: center;">\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td style="text-align: center;"><b>\$ 950.00</b></td> </tr> </tbody> </table> |              | CLAIMS  | NUMBER FILED | NUMBER EXTRA     | RATE | \$ | Total claims | 5 - 20 = | 0 | x \$18.00 | \$ | Independent claims | 1 - 3 = | 0 | x \$86.00 | \$ | MULTIPLE DEPENDENT CLAIM(S) (if applicable) |  |  | + \$290.00 | \$ | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  |  |  | <b>\$ 950.00</b> | <b>\$</b> |  |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE         | \$               |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| Total claims  | 5 - 20 =     | 0   | x \$18.00    | \$               |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| Independent claims  | 1 - 3 =      | 0   | x \$86.00    | \$               |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |   | + \$290.00   | \$               |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |              | <b>\$ 950.00</b> |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above<br>are reduced by 1/2.   |              | <b>\$</b>   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <b>SUBTOTAL =</b>   |              | <b>\$ 950.00</b>  |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months<br>from the earliest claimed priority date (37 CFR 1.492(f)).   |              | <b>\$</b>   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <b>TOTAL NATIONAL FEE =</b>   |              | <b>\$ 950.00</b>  |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +  |              | <b>\$ 40.00</b>   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              | <b>\$ 990.00</b>  |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
|   |              | Amount to be refunded: \$   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
|   |              | charged: \$   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>990.00</u> to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any<br>overpayment to Deposit Account No. <u>06-0308</u> . A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card</b><br><b>information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.  |              |   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</b>  |              |   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| SEND ALL CORRESPONDENCE TO:<br>Jay F. Moldovanyi<br>Fay, Sharpe, Fagan, Minnich & McKee, LLP<br>1100 Superior Avenue, Seventh Floor<br>Cleveland, Ohio 44114  |              |   |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |
| DEC 13 2004   |              | <br>SIGNATURE<br>Jay F. Moldovanyi<br>NAME<br>29,678<br>REGISTRATION NUMBER |              |                  |      |    |              |          |   |           |    |                    |         |   |           |    |   |  |  |            |    |                                      |  |  |  |                  |           |  |

10/517298

DT89 Rec'd PCT/PTO 07 DEC 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) : Takanori Fukushima et al.

TITLE : COMPOSITION IN GEL FORM  
COMPRISING CARBON NANOTUBE  
AND IONIC LIQUID AND METHOD FOR  
PRODUCTION THEREOF

INTERNATIONAL APPLICATION NO. : PCT/JP2003/013162

INTERNATIONAL FILING DATE : 15 October 2003

ATTORNEY DOCKET NO. : TSUZ 2 00019

Cleveland, OH 44114  
December 7, 2004

**CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10**

"Express Mail" Mailing Label Number **EV 471023425 US**

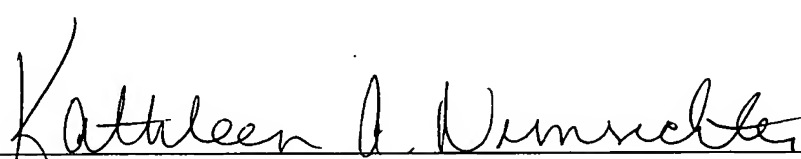
Date of Deposit **December 7, 2004**

I hereby certify that the attached documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner For Patents, Box Patent Applications, Washington, D. C. 20231.

Kathleen A. Nimrichter

---

(Typed or printed name of sender)

  
(Signature)

December 7, 2004  
(Date)